

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Nobuyuki ISHIWATA et al.
Appl. No.: NEW DIVISIONAL Group:
Filed: January 5, 2004 Examiner:
For: MAGNETORESISTANCE APPARATUS HAVING
REDUCED OVERLAPPING OF PERMANENT MAGNET
LAYER AND METHOD FOR MANUFACTURING THE
SAME

INFORMATION DISCLOSURE STATEMENT
(SUBMISSION WITH CONTINUATION-IN-PART OR
RULE 1.53(b) CONTINUATION OR DIVISIONAL APPLICATION)

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

January 5, 2004

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on the PTO-1449 form(s), attached hereto.

II. REFERENCES PREVIOUSLY CITED OR SUBMITTED

Pursuant to 37 C.F.R. § 1.98(d), consideration of information listed on the PTO-1449 form(s) is requested since any patents, publications, or other information which are listed on the PTO-1449 form(s) but for which copies are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Appl. No(s).

09/466,810

U.S. Filing Date(s)

December 20, 1999

III. FEES

This Information Disclosure Statement is being filed concurrent with the filing of a continuation-in-part, continuation, or divisional patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS or requires a copy of any of the references cited but not provided, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 25-0120.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fee required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

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EJ/maf
8053-1003-1

Enclosures: ☒ PTO-1449
☐ References
☐ Foreign Search Report
☐ Other:

Revised January 9, 2003

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Attorney Docket No.: 8053-1003-1	Application No.: NEW DIVISIONAL
	Applicant: Nobuyuki ISHIWATA et al.	
	Filing Date: January 5, 2004	Group Art Unit:

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing date (if appropriate)
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	5,748,416	5/1/1998	Tobise et al.			
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						Yes	No
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	Robert P. Hunt, "A Magnetoresistive Readout Transducer," IEEE Trans. on Magnetics, Vol. MAG-7, No. 1, pp. 150-154, March 1971.
	Ching Tsang et al., "Design, Fabrication & Testing of Spin-Valve Read Heads for High Density", IEEE Trans. on Magnetics, Vol. 30, No. 6, pp. 3801-3806, November 1994.
	Hari Hedge et al., "Fabricating spin valves by ion-beam deposition," DATA STORAGE, pp. 69-70, September 1998.

EXAMINER:

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

* Abstract provided for the Examiner's convenience

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Y&T January 5, 2004